MA335J — INSULATED WIRE AND CABLE (SHIPMENTS)

DEFINITIONS AND SPECIAL INSTRUCTIONS

1. Scope of survey

This survey covers establishments manufacturing and fabricating insulated wire and cable and/or apparatus wire and cordage with a copper/copper clad or aluminum/aluminum clad core. This survey also includes optical fiber cable.

2. Figures to be reported

We prefer that a separate report be filed for each establishment. However, if you wish, you may combine two or more establishments in a single report. If you do file a combined report, you should report transfers in between the various plants as interplant transfers in sections I–VIII. Such shipments should also be included, as provided below, in those data which represent "total shipments, including interplant transfers."

If you manufacture apparatus wire and cordage, you should report:

If you buy wire and insulate it and/or If you buy wire already insulated

You should report all shipments (including both domestic and export) of insulated or covered wire and cable for transmitting electrical energy, signals, or communication. Exclude bare and tinned wire and cable and ACSR.

Report interplant transfers for those shipments "shipped" for use by your own company, an affiliate, subsidiary, or parent company. The interplant transfer figure should also be included with "total shipments including interplant transfers."

Transfers to sales branch location should be excluded from interplant transfers but should be included in shipments to other companies.

Exclude resales — products bought and sold without further manufacture.

The value of the products shipped should be based on the net selling value, f.o.b. plant, after discounts and returns and allowances. Freight charges and excise taxes should be excluded.

Be sure to sum all of the items designated under the indicated product groups that you have reported. This total should agree with your shipments for that section. If your shipments are greater than the individual items you have reported, you may have omitted an item(s). If this is the case, please insert those items omitted. If, however, your shipments are less than the individual item reported, you may have double counted one or more items.

Item

code Product group

2298 Total electronic wire and cable

2598 Total telephone and telegraph wire and cable

3298 Total power cable

4098 Total portable power cable

4198 Total control and signal wire and cable

4298 Total building wire and cable 5298 Total apparatus wire and cable

5398 Total other wire and cable

6199 Total magnet wire

8199 Total optical fiber cable

3. Columnar structure of report

When posting your figures to the report, please be sure to report the information in the correct columns. These are:

SECTIONS I-VIII — INSULATED WIRE AND CABLE. OTHER THAN MAGNET WIRE AND OPTICAL FIBER **CABLE**

Column 1 — Copper content (excluding insulation) in thousands of pounds for total shipments, including interplant transfers

Column 2 — Aluminum content (excluding insulation) in thousands of pounds

For sections I, II, V, and VII, report quantity of aluminum content for:

Item code 2298 — Total electronic wire and cable

Item code 2598 — Total telephone and telegraph wire and cable

Item code 4198 — Total control and signal wire and cable

Item code 5298 — Total apparatus wire and cordage

Metal content of "copper clad aluminum" should be reported in the aluminum column.

Column 3— Value in thousands of dollars for total shipments, including interplant transfer

Column 4— Value in thousands of dollars for interplant transfers, excluding shipments to sales branches (Total only)

SECTION IX — MAGNET WIRE (Item codes 6106–6199)

You should report products with thermal ratings falling between those listed in the report under the next lower rating, except that products with a thermal rating of less than 105 C should be included with 105 C products.

The U.S. Government specification for magnet wire, MW 1000, should be used as the guide for determining the thermal classification of magnet wire.

DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

3. Columnar structure of report — Continued

SECTION IX - MAGNET WIRE (Item codes 6106–6199)
— Continued

Column 1 — Quantity of copper wire in thousand pounds gross weight (including insulation) for total shipments including interplant transfers

Column 2 — Value of copper wire (including insulation) in thousands of dollars for total shipments including interplant transfers

Column 3— Quantity of aluminum wire in thousand pounds gross weight (including insulation) for total shipments including interplant transfers

Column 4 — Value of aluminum wire (including insulation) in thousands of dollars for total shipments including interplant transfers

Column 5 — Quantity of copper wire in thousand pounds gross weight for interplant transfers, excluding shipments to sales branches

Column 6 — Quantity of aluminum wire in thousand pounds gross weight for interplant transfers, excluding shipments to sales branches

SECTION X — OPTICAL FIBER CABLE (Item codes 8101–8199)

This section provides for the collection of insulated optical fiber cable.

Column 1 — Quantity (Report thousands of Cable Conductor Kilometers (CCKM).

Column 2 — Value (Report in thousands of dollars the value of optical fiber cable, including insulation).

SECTION XI — OPTICAL FIBER (Item codes 9101–9102)

This section provides for the collection of optical fiber.

Column 2 — Value (Report in thousands of dollars the value of optical fiber).

4. Definitions

INSULATED WIRE — A rod of drawn metal filament covered with insulation.

INSULATED CABLE — A number of conductors twisted or grouped together.

Dual rated products should be classified according to their higher ratings.

Multi-insulated cables should be classified according to their primary insulation, i.e., the layer of material designed to do the electrical insulating, usually the first layer of material applied over the conductor.

GROSS WEIGHT — *Include* insulating materials but *exclude* packaging materials.

INSULATION — A non-conductive material usually surrounding or separating two or more conductive materials.

THERMOPLASTIC — Insulation that will soften and distort from its formed shape by heating above a critical temperature peculiar to the material.

THERMOSETTING — Insulation that will not resoften or distort from its formed shape by heating until a destructive temperature is reached.

ARMOR — The outer layer of a cable applied for mechanical protection, usually consisting of a layer or layers of a metallic tape, braid, or several wires.

CROSS-LINKED — Intermolecular bonds produced between long chain molecules in a material to increase molecular size by chemical or electron bombardment, resulting in a change in physical properties in the material usually improved properties.

ELASTOMER — Any elastic rubber-like substance, such as natural or synthetic rubber; when stretched to twice its length will resume approximately the original shape.

JACKET — A covering put around an insulated conductor for the purpose of protection and/or resistance.

INSULATED WIRE AND CABLE — All insulated wire and cable for transmitting electrical energy, signals, or communications. Exclude bare and tinned wire and cable and ACSR.

ELECTRONIC WIRE AND CABLE — All single and multiconductor wire and cable used for transmission, reception, or reproduction of electrical frequencies (16 gauge and smaller). Excludes telephone cable. See Apparatus Wire and Cordage for larger gauges.

SEMI-RIGID — A cable containing a flexible inner core and a relatively inflexible sheathing.

COAXIAL CABLE — Cable consisting of two or more cylindrical conductors with a common axis. The two conductors are separated by a dielectric for use as high frequency transmission lines and communication systems.

HOOK-UP WIRE, SINGLE CONDUCTOR — Single conductor wire (16 AWG and smaller) used for internal equipment wiring.

DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

4. Definitions — Continued

RIBBON CABLE — A cable consisting of two or more conductors laid parallel in one plane and held in place by the insulation or some other means.

MULTI-CONDUCTOR CABLE — More than one conductor within a single cable complex.

SHIELDED CABLE — Constructed so that substantially every point on the insulation is at ground potential or some pre-determined potential with respect to ground.

TELEPHONE WIRE AND CABLE — All wires and cables used in the telephone industry to transmit, receive, and monitor communications signals. Excludes coaxial and other electronic wire and cable.

DROP WIRE — Service drop from pole to subscribers house: parallel, twisted or dumbbell style.

BRIDLE WIRE — For connection of open wire and terminals or protectors and as apparatus leads.

TELEPHONE CORD SETS — Cut lengths of wire with terminals or connectors for use in telephone hand or head set applications and telephone line cords.

POWER CABLE (2kv or less) — Single and multiconductor cable rated 2kv or less, sizes 14AWG and larger, insulated with thermosetting or thermoplastic insulation, and with or without a metallic armor overall.

Include

Airport lighting cable
Bus drop cable
Cathodic protection cable
Network cable
Oil tray cable
Overhead line wire
Pole and bracket cable
Power tray cable
Service drop and secondary cable (8AWG or larger)
Submarine power cable (8AWG or larger)
Submersible pump or water well cable (8AWG or larger)
Weatherproof cable

Exclude

Insulated single conductor with UL label Secondary underground distribution cables Single conductor multiplexed or paralleled reported as 0–2kv BX and AC wire

POWER CABLE (2.1–15kv) — Single and multiconductor cable rated 2.1–1.5kv, in sizes 8AWG and larger, insulated with dielectric insulation, either thermosetting or thermo-

plastic, shielded or unshielded, jacketed or unjacketed and armored or unarmored.

Include

Aerial spacer cables
Airport lighting cable
Oil well cable — armored and unarmored
Pole and bracket cable
Power cable
Street lighting cable
Submarine power cable

Exclude

Portable power cables UD cables Mine power feeder cable

POWER CABLE (over 15kv) — Single and multi-conductor cable rated 15.1kv and over, in sizes 2AWG and larger, insulated with dielectric insulation, thermosetting, shielded or unshielded, jacketed or unjacketed and armored or unarmored.

Include

Power cable Submarine power cable

Exclude

Portable power cables UD cables Mine power feeder cable

POWER CABLE, UNDERGROUND CABLE (US) 0–2KV (UL listed, single conductor cable) — Single, multiplex, or paralleled solid dielectric insulated cable with or without concentric neutral (either thermosetting or thermoplastic insulation) rated 0–2kv and specifically used for residential and/or commercial underground services and/or feeders. Exclude single conductor UL labeled USE.

POWER CABLE, UNDERGROUND CABLE (US) OVER

2KV — Single, multiplex, or paralleled solid dielectric insulated cable with or without concentric neutral (either thermosetting or thermoplastic insulation) rated over 2kv and designated for use as a primary distribution cable in underground locations.

CONTROL AND SIGNAL WIRE AND CABLE — Any solid dielectric insulated (thermosetting or thermoplastic), jacketed or unjacketed cable, multi-conductor, rated 2500V or less, sized 22AWG through 9AWG, utilized to operate control valves and relays, or to implement or record an event (but does not supply the energy being controlled in the event); also utilized to actuate, power and control railroad signaling, warning or crossing protective devices; or utilized to actuate or control fire alarm circuits.

DEFINITIONS AND SPECIAL INSTRUCTIONS — Continued

4. Definitions — Continued

CONTROL AND SIGNAL WIRE AND CABLE — Continued

Include

Signal cable – less than 16AWG or less than 2kv Control cable – 9AWG and smaller, 2kv or less than 300V

Fire alarm cable

Submarine control cable Instrumentation cable Railroad signal cable

Traffic control and signal cable

PORTABLE CROSS LINKED JACKETED CABLE

Include

Shielded and non-shielded

Round types: SO, W, G, PG, PCG, SH, AND SH-A,

B, C, D, and GGC

Types SO, SJO, AND SJO shielded and unshielded

Twin or triple types W and G Locomotive gathering reel

Battery

Concentric

Elevator control

Grounding cable

High tension

Trolley bus

Magnet crane

Motor lead

Power jumper

Railway utility

Sand cutter

Train jumper

PORTABLE NON-CROSS LINKED JACKETED CABLE

— All portable cable not bearing UL flexible cord or appliance wiring material label. Include thermoplastic mining machine cable; thermoplastic and thermoset mine power feeder. Exclude welding cable.

BUILDING WIRE — All wire and cable (601 volts or less) used within structures for light and power for permanent installation. Includes service entrance cable.

APPARATUS WIRE AND CABLE — Insulated wire and cable used in connecting electrical apparatus to a power source, and appliance wiring material (22AWG and heavier including motor lead and transformer lead wire). See electronic wire and cable for appliance wiring material finer than 22AWG.

CORD SETS — Portable cords, fitted with any type of wiring device at one or both ends.

CORD — A small, flexible, multiple-conductor cable.

APPLIANCE WIRING MATERIAL — Insulated wire and cable intended for internal wiring of appliances and equipment.

FLEXIBLE CORDAGE (Flexible cord, portable cord, or appliance cord) — Cordage of two or more conductors, normally used for electrical and electronic appliances, tools, and business machines.

OTHER APPARATUS WIRE AND CORDAGE (Including machine tool wire) — Other types such as battery cable: non-transportation uses, defroster wire, and electric furnace cable.

OTHER WIRE AND CABLE — Includes bulk automotive battery and ignition wire, elevator hatch and traveling cable, weatherproof cable, and air-frame, shipboard, and ground support cable.

BULK AUTOMOTIVE PRIMARY WIRE — Used for low voltage lighting and control circuits, including wiring for automotive harnesses.

BULK BATTERY CABLE — Used for positive and negative cables, switch to starter cables.

BULK IGNITION WIRE — High tension (5mm or 7mm) shielded or unshielded for internal combustion engines.

BATTERY CABLE SETS — Cut lengths of wire with ends prepared for connection between automotive battery and starter, battery and battery, battery and ground or switch to starter.

MAGNET WIRE, including insulated magnet strip conductor—all insulated wire of the type generally used in the winding of coils, including Litz wire and including insulated magnet sheet, strip, and foil. The thermal classification for bondable wires should be determined by the underlying insulation. Also, the combination (film-fabric) product should be classified based on the insulation on the top side.

LITZ WIRE — Litz wire refers to multistrand construction of small gauge film insulated wire that is precision twisted. This construction minimizes the power loss related to the "skin effect" of current at radio frequencies.

OPTICAL FIBER — Optical fiber used for data purposes — A long thin strand of transparent glass, plastic or other materials usually consisting of a fiber optical core and a fiber optical cladding capable of conducting light along its axial length by internal reflection, used in the transmission of voice, video, and/or data information.

ALL GLASS OPTICAL FIBER (single node) — An optical fiber consisting of a glass core and glass cladding that supports the propagation of only one mode, or ray, of light at a time.

ALL GLASS FIBER (multimode) — An optical fiber consisting of a glass core and a glass cladding that supports the propagation of more than one mode, or ray, of light at a time.

PLASTIC CLAD GLASS FIBER — An optical fiber with a glass core and a plastic optical cladding.

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DEFINITIONS AND SPECIAL INSTRUCTIONS

4. Definitions — Continued

OPTICAL FIBER — Continued

ALL PLASTIC OPTICAL FIBER — An optical fiber consisting of a plastic optical core and a plastic optical cladding.

NONCOHERENT BUNDLE — A collection of optical fibers arranged randomly for the purpose of transmitting light but not images.

COHERENT BUNDLE — A collection of optical fibers arranged non-randomly to permit the transmission of images, excluding faceplates and sensors.

FACEPLATE — A fused coherent bundle used for the transmission of images over a short distance, excluding sensors.

SENSORS — Optical fibers used in apparatus designed to detect or sense environmental effects such as pressure, temperature, magnetic, electric fields, rotation, etc.

4. Abbreviations

C	Centigrade
AWG	American wire gauge
UD	Underground distribution
URD	Underground residential distribution
UL	Underwriters laboratory
USE	Underground service entrance cable, 75 c wet location
KV	Kilovolt (1000 volts)
R	Rubber insulated
RH	Rubber insulated, heat resistant cable,
	75 c dry location
RHH	Rubber insulated, heat resistant cable,
	90 c dry locations
RHW	Rubber insulated, heat and moisture
	resistant, 75 c dry and wet locations
XHHW	,,,
	90 c dry location, 75 c wet location
THHN	Thermoplastic insulated, high heat resistant,
	nylon jacketed cable, 90 c dry location.
THWN	months and moderates, moderates and moderates
	resistant, nylon jacket cable, 75 c dry
	and wet location
TW	Thermoplastic insulated, moisture resistant
	cable, 60 c wet or dry location
THW	Thermoplastic insulated, heat and moisture
	resistant cable, 75 c dry and wet location

SER SEU	Round service entrance cable (rubber) Service entrance cable (unarmored)
SEA	Service entrance cable (armored)
NM	Designation for nonmetallic sheathed cable,
	building wire
NMC	Nonmetallic sheathed cable, corrosion
	resistant, 60 c wet or dry location
UF	Underground feeder cable, thermoplastic
	insulated, 60 c wet or dry location
AC	Alternating current
MI	Mineral insulated 85 c dry and wet location,
	250 c special application
PIC	Thermoplastic insulated
PULP	Paper and pulp insulated

4. Comparability

Data reported in this survey should correspond to data reported in the Economic Census - Manufacturing Sector form. The sum of values for item codes shown in column (a) should correspond to the dollar values reported under product codes indicated in column (b) below:

product codes indicated in column (b) below:		
Current Industrial Report (Form MA335J)	Economic Census - Manufacturing Sector	
Item codes (a)	Product codes (b)	
2201 through 2270	335929A 100	
2501 through 2545	335929B 100	
3201 through 4014	3359291 100	
4111 through 4119	335929C 100	
4242 through 4264	335929D 100	
5221 through 5247	331491E 100	
5310 through 5331	335929E 100	
¹ 6106 through 6188	331491G 100	
8101 through 8111	3359210 100	
8120	3359210 100	
9101 through 9102	327215A 100	
For those item codes our of columns 2 and 4		

¹ For these item codes sum of columns 2 and 4

REFERENCE LIST

		REFERENCE LIST			
FORM MA335J		INOUE ATER WIRE AND CARLE (QUIRMENTO)			
	INSULATED WIRE AND CABLE (SHIPMENTS)				
Product	Item				
code	code	Item description			
335929A1		Section I — ELECTRONIC WIRE AND CABLE, INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (Exclude fiber optics)			
		Electronic coaxial cable, armored or nonarmored			
335929A100	2201	Rigid			
335929A120	2205	Semirigid Flexible			
335929A130	2213	135 C and over			
335929A140	2221	Under 135 C			
335929A150	2225	CATV/Broadcast coaxial cable			
335929A160	2240	Antenna lead-in wire			
		Hook-up wire, (single conductor, shielded and nonshielded)			
335929A170	2245	135 C and over temperature rating			
335929A180	2250	Under 135 C temperature rating, 16AWG and smaller			
		Multiconductor electronic wire and cable (shielded and unshielded)			
335929A190	2253	Flat and ribbon cable			
		Other multiconductor electronic wire and cable Shielded			
335929A1A0	2255	135 C and over temperature rating			
335929A1B0	2260	Under 135 C temperature rating			
		Nonshielded			
335929A1C0	2265	135 C and over temperature rating			
335929A1D0	2270	Under 135 C temperature rating			
XXX	2298	Total electronic wire and cable (Sum of item codes 2201–2270)			
335929B1		Section II — TELEPHONE AND TELEGRAPH WIRE AND CABLE, INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (Exclude fiber optics)			
335929B110	2501	Jumper and distributing frame wire			
335929B120	2503	Station wire and cable			
335929B130	2507	Telephone cord sets and cordage			
335929B140	2509	Inside wiring cable			
335929B150	2511	Drop and bridle and duct wire			
335929B160	2515	Rural and urban distribution wire and cable			
335929B170	2527	Polyethylene covered exchange area and toll cable (PIC and PULP insulated)			
335929B180	2545	Other telephone and telegraph wire and cable			
xxx	2598	Total telephone and telegraph wire and cable (Sum of item codes 2501–2545)			

REFERENCE LIST — Continued

DRM MA335J	T	
Product	Item	
code	code	Item description
33592918		Section III — POWER WIRE AND CABLE (Exclude fiber optics)
3359291810	3201	Paper insulated cable (all types, all voltages)
		Plastic and rubber insulated
3359291820	3203	2KV or less Portable welding cable
3359291830	3219	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed,
0000_0.000	52.0	excluding single conductor UL labeled USE)
3359291840	3231	Thermoplastic insulated power cable (exclude underground)
		Thermoset, insulated power cable (exclude underground)
3359291850	3233	Armored, rubber and cross linked
3359291860	3235	Unarmored, rubber (exclude single conductor UL labeled USE)
3359291870	3245	Unarmored, cross linked
3359291880	3246	Rubber (R, RH, RHH, RHW)
3359291890	3249	Weatherproof cable
3359291891	3257	Service drop cable, thermoset and thermoplastic insulated
		Over 2KV
33592918C0	3263	Underground distribution cable (UD, URD), all insulations (jacketed and unjacketed)
33592918D0	3265	Thermoplastic insulated power cable (exclude underground)
		Thermoset, insulated power cable (exclude underground) 2KV to 15KV
33592918E0	3267	Armored, rubber and cross linked
33592918F0	3271	Unarmored, rubber (exclude single conductor UL labeled USE)
33592918G0	3273	Unarmored, cross linked
33592918H0	3275	Over 15.1KV, rubber and cross linked
00002010110	0270	GVOLTO. TICV, TUBBEL GITU GIGGO III INGG
3359291810	3279	Other power wire and cable
XXX	3298	Total power wire and cable (Sum of item codes 3201–3279)
		Section IV — PORTABLE POWER CABLE
33592918J0	4011	2KV or less portable cable
33592918M0	4014	Over 2KV portable crosslinked and non-crosslinked
000020101010	1011	Svor 2100 portable discontinued and non-discontinued
XXX	4098	Total portable power cable (Sum of item codes 4011 and 4014)
335929C1		Section V — CONTROL AND SIGNAL WIRE AND CABLE (Exclude fiber optics)
335929C110	4111	Signal wire and cable
0000200110		Control wire and cable (exclude elevator cable)
335929C120	4115	Thermoset insulated
335929C120 335929C130	4119	Thermoplastic insulated
3000200100	7113	Thermoplastic inculated
XXX	4198	Total control and signal wire and cable (Sum of item codes 4111–4119)

REFERENCE LIST — Continued

FORM MA335J		
Product	Item	to an also are the
code	code	Item description
335929D1		Section VI — BUILDING WIRE AND CABLE (Exclude fiber optics)
		Building wire and cable
		Thermoset insulated
335929D110	4242	Cross-linked polyethylene (XHHW)
335929D120	4244	Cross-linked polyethylene (XLP, USE) Thermoplastic insulated
335929D130	4246	Flame-retardant nylon (THHN, THWN)
335929D140	4248	Moisture and heat resistant (TW, THW)
335929D150	4254	Service entrance cable (SER, SEU, ASE)
0000202100	0 .	Non-metallic branch-circuit and underground feeder
335929D160	4256	Type NM-B
335929D170	4258	Type US and NMC (corrosion resistant)
335929D181	4261	Metallic armored cable (AC type)
335929D183	4263	Metallic armored cable (MC type)
335929D190	4264	Other building wire and cable
XXX	4298	Total building wire and cable (Sum of item codes 4242–4264)
331491E1		Section VII — APPARATUS WIRE AND CORDAGE INCLUDING PRODUCTS FABRICATED FROM WIRE AND CABLE (Exclude fiber optics)
		THOM WINE AND OADEE (Exolude liber opacs)
		Flexible cordage
331491E110	5221	Thermostat insulated
331491E120	5223	Thermoplastic (include thermoplastic elastomers)
331491E180	5225	Extension cord sets
331491E190	5227	Fixed power supply cords
331491E1A0	5231	Detachable power supply cords
331491E1B0	5233	Retractable power supply cords
		Apparatus wire
331491E130	5235	Appliance fixture wire
331491E145	5240	Appliance wiring material 14 gauge and larger (include motor lead and transformer lead wire), thermoset and thermoplastic insulated
331491E160	5243	Submersible pump cable
331491E170	5247	Other apparatus wire and cordage (include machine tool wire)
XXX	5298	Total apparatus wire and cordage (Sum of item codes 5221–5247)
335929E1		Section VIII — OTHER INSULATED WIRE AND CABLE INCLUDING PRODUCTS
		FABRICATED FROM WIRE AND CABLE (Exclude fiber optics) (Exclude appliance wire and
		cord and flexible cord sets, ignition harness sets, cable sets, etc.)
		Automotive
335929E110	5310	Bulk automotive primary wire
335929E120	5312	Bulk battery cable
335929E130	5315	Bulk ignition wire
335929E140	5318	Other automotive wire and cable
		Airframe, shipboard, and ground support cable (exclude coaxial cable and ignition cable)
335929E150	5324	Airframe and missile (include ground support cable)
335929E160	5328	Shipboard cable
335929E170	5331	Other insulated or covered wire and cable, not elsewhere classified
XXX	5398	Total other insulated or covered wire and cable (Sum of item codes 5310–5331)

REFERENCE LIST — Continued

FORM MA335J		REFERENCE FIOT — COntinued		
FURM IVIA333J				
Product	Item			
code	code	Item description		
331491G1		Section IX — MAGNET WIRE (Include insulated magnet sheet, strip, and foil but exclude fiber optics)		
		Film coated (Report products with thermal rating between classes in the next lower class) Class 105 and below		
331491G110	6106	7AWG and larger round (include all square and rectangular)		
331491G120	6108	8–21AWG		
331491G130	6112	22–32AWG		
331491G140	6115	33AWG and finer		
		Class 130–155		
331491G150	6117	7AWG and larger round (include all square and rectangular)		
331491G160	6119	8–21AWG		
331491G170	6121	22–32AWG		
331491G180	6125	33AWG and finer		
331491G190	6130	Class 180 and above 7AWG and larger round (include all square and rectangular)		
331491G1A0	6133	8–21AWG		
331491G1B0	6154	22–32AWG		
331491G1C0	6155	33AWG and finer		
331491G1I0	6159	Miscellaneous film coated, not elsewhere classified		
		Nonfilm coated		
		Class 130 and below		
331491G1D0	6168	Fibrous		
331491G1E0	6172	Tape		
0044040450	6474	Class 155 and above		
331491G1F0	6174	Fibrous		
331491G1G0 331491G1H0	6176 6188	Tape Missellaneous pen film coated, not alsowhere electified, (include insulated magnet sheet		
33149101110	0100	Miscellaneous non-film coated, not elsewhere classified, (include insulated magnet sheet, strip, and foil)		
		Strip, and foil)		
XXX	6199	Total magnet wire (Sum of item codes 6106–6188)		
33592101		Section X — OPTICAL FIBER CABLE		
		Communication applications		
		Single-mode stepped-index		
3359210125	8101	Dispersion shifted		
3359210128	8102	Dispersion unshifted		
3359210131	8110	Multimode stepped-index		
3359210134	8111	Multimode graded-index		
3359210434	8120	Other applications		
XXX	8199	Total optical fiber cable (Sum of item codes 8101–8120)		
327215A2		Section XI — OPTICAL CABLE		
327215A235	9101	Optical fiber used for data purposes		
327215A238	9102	Optical fiber used for nondata purposes		
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12/27/02